YNK-DBR No. Date.....

Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No. & Part bill

AEE, YSTSD

SBR No: 157/21-22

Date: 29/3/2022

Division: Yelahanka Sub Division: Yelahanka

Bill Received No ..... Dated ..... Cash Book Voucher No ..... dated .....

Scheduled Docket No .....

Name of Work: Restoration and Improvement of Sainagara, Best County, Bharathnagar and Chandrappa Layout, Hill side meadows layout, Subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Sub division (PACKAGE NO-14)

Job Code No: 003 - 22 - 000004

Est. cost: 1400.00 lakhs

Name of Contractor and Full Address : M/s Nandi Constructions, Prop : Sri. Yogesh.

Work Order No: **BBMP/EE/YNK.D/EPMT/W.O/116/2021-22,** **Dated : 16/02/2022**

Certified that the measurements were taken by me on 29/03/2022 and recorded in pages 114881-114889 of measurement Book No 1149 and that the work is satisfactorily executed.

For M/s. NANDI CONSTRUCTION

Partners

Contractor **Officer-in-charge of work**

29/3/2022

Certified that the measurements were taken by me on ..... and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

29/3/2022

Sub-Division Officer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

If Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being ..... percent Rs .....
3) Deduct amount to be held in Balance
4) Deduct Payment
   a) Amount of previous payment as in the Office Cash Book Voucher No ..... Dated ..... S.D No .....
   Amount adjusted towards cash advance recovery of
   b) Payments cost store or other materials supplied
   Now made recovery of amount creditable to this/other work
   Amount paid on this bill Cheque/Cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the office Cash Book Voucher No .....
   date ..... less adjustments
7) Net amount due to or from contractor

Unadjusted items

8) Advance to contractor for materials brought to site (as detailed) within value of Governme
   materials supplied

Gross Amt =Rs	106562088=00
PSD =Rs	—
CESS = Rs	951447=00
[illegible] = Rs	951447=00
[illegible] = Rs	213242=00
[illegible] = Rs	1065621=00
CBR = Rs	106562=00
[illegible] = Rs	956266=00
T 6162585=00	14766585=00
Net Amt=Rs	91795503=00
	100399503=00

For M/s. NANDI CONSTRUCTION

Partners

Contractor's Signature

Received Rs ..... (in words)

By Cash and by adjustment of Payment as per memorandum.

Witnesses

1

2

For M/s. NANDI CONSTRUCTION

Partners

Dated ..... Signature of Contractor

Paid by me by cheque No ..... Dated .....

Cash Rs ..... Dated .....

Audited & Admitted for Rs 106562088=00 (For use in the Office)

91795503-00 100399503=00

and Rs 14766585-00 by Cheque

6162585=00 by adjustment

Asst. Engineer
Yelahanka Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Initials of Officer Making Payment

Executive Engineer

Net — 100399503

Name of Work:Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Sub division (PACKAGE NO-14)

ABSTRACT

Sl No	Description of Work	Unit	As per Shedule -B			Previous measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate	Amount	Qty	Amount
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete.II. By Mechanical Means. A. Cement Concrete Grade M-15 & M-20. MORTH Specification No. 202.Including all lead and lift and as per the direction of Engineer in Charge	Cum	539.84	852.62	460276.25	-	-	539.84	852.62	460276.25	539.84	460276.25
	Above 125%	Cum	1794.05	852.62	1529644.68	-	-	1794.02	852.62	1529617.13	1794.02	1529617.13
2	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatlydressed, the disposed earth to be levelled neatly after breaking of clods complete as per the direction of Engineer in Charge	Cum	8427.31	217.43	1832349.22	-	-	8427.10	217.43	1832304.79	8427.10	1832304.79
3	Providing and laying in position plain cement concreteof Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per the direction of Engineer in Charge	Cum	1698.19	5675.99	9638895.27	-	-	1698.19	5675.99	9638895.27	1698.19	9638895.27
	Above 125%	Cum	821.93	5675.99	4665258.60	-	-	821.83	5675.99	4664676.16	821.83	4664676.16
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. Including cost of materials, labour, HOM complete as per specifications. Including all lead and lift and as per the direction of Engineer in Charge	Cum	3001.43	7497.22	22502362.67	-	-	3001.30	7497.22	22501378.65	3001.30	22501378.65
5	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification including all lead and lift and as per the direction of Engineer in Charge	Ton	182.26	80948.07	14753737.63	-	-	182.26	80948.07	14753737.63	182.26	14753737.63

Sl No	Description of Work	Unit	As per Shedule -B			Previous measurement		Present Measurement			Up to date	
6	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per the direction of Engineer in Charge	Cum	71.10	6089.85	432988.34	-	-	71.10	6089.85	432988.34	71.10	432988.34
	Above 125%	Cum	75.53	6089.85	459944.62	-	-	75.51	6089.85	459856.75	75.51	459856.75
7	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm, slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc, Complete as per MORTH specifications No. 1500, 1700 including all lead and lift and as per the direction of Engineer in Charge	Sqm	7353.50	1941.22	14274766.31	-	-	7353.11	1941.22	14274004.19	7353.11	14274004.19
8	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing including all lead and lift and as per the direction of Engineer in Charge	Sqm	515.76	4530.86	2336836.35	-	-	515.10	4530.86	2333845.99	515.10	2333845.99
9	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete including all lead and lift and as per the direction of Engineer in Charge	Nos	16406.00	436.80	7166140.80	-	-	16406.00	436.80	7166140.80	16406.00	7166140.80
10	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications including all lead and lift and as per the direction of Engineer in Charge	Sqm	2583.86	85.65	221307.78	-	-	1430.42	85.65	122515.04	1430.42	122515.04
11	Providing and laying heavy duty cobble stones interlock pavers, 60mm thick using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications including all lead and lift and as per the direction of Engineer in Charge	Sqm	7521.88	1127.34	8479721.43	-	-	7521.87	1127.34	8479704.70	7521.87	8479704.70
12	Excavation for roadwork in soil with hydraulic excavator of 09 cum bucket capacity including cutting and loading to tippers, transporting with a lead of 1.00 km and trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per the direction of Engineer in Charge	Cum	6901.00	64.58	445666.32	-	-	1350.05	64.58	87186.49	1350.05	87186.49
13	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.	Sqm	21582.10	6.42	138557.10	-	-	3456.34	6.42	22189.70	3456.34	22189.70

Sl No	Description of Work	Unit	As per Shedule -B			Previous measurement		Present Measurement			Up to date	
14	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications including all lead and lift and as per the direction of Engineer in Charge	Cum	3239.55	2014.87	6527279.10	-	-	675.03	2014.87	1360091.65	675.03	1360091.65
15	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications including all lead and lift and as per the direction of Engineer in Charge	Cum	3190.19	2021.29	6448304.74	-	-	904.36	2021.29	1827965.74	904.36	1827965.74
16	Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications including all lead and lift and as per the direction of Engineer in Charge	Sqm	15950.96	34.26	546480.02	-	-	3236.36	34.26	110877.69	3236.36	110877.69
17	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications including all lead and lift and as per the direction of Engineer in Charge	Sqm	17385.67	12.85	223405.85	-	-	4671.60	12.85	60030.00	4671.60	60030.00
18	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-14 Bitumen	Cum	824.75	7365.73	6074868.20	-	-	194.36	7365.73	1431590.39	194.36	1431590.39
19	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with sensor paver grading II (30-45mm) with 5.4% of modified bituminus binder consisting of 4.97% of VG-14 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) including all lead and lift and as per the direction of Engineer in Charge	Cum	695.43	8534.82	5935342.27	-	-	186.86	8534.82	1594848.90	186.86	1594848.90

Sl No	Description of Work	Unit	As per Shedule -B			Previous measurement		Present Measurement			Up to date	
20	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2 5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications including all lead and lift and as per the direction of Engineer in Charge	Sqm	577 25	459.29	265126.44	-	-	0.00	459.29	0.00	0.00	0.00
21	Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineerincluding all lead and lift and as per the direction of Engineer in Charge	Nos	192.00	360.79	69271.68	-	-	0.00	360.79	0.00	0.00	0.00
	Above 125%		174.00	360.79	62777.46	-	-	0.00	360.79	0.00	0.00	0.00
	EIRL											
E1	KSRRB M600-1 Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver as per the direction of Engineer in Charge	Cum	845 56	4101 91	3468390.26	-	-	0.00	4101 91	0.00	0.00	0.00

Sl No	Description of Work	Unit	As per Shedule -B			Previous measurement		Present Measurement			Up to date	
E2	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS 383-2016, with Superplastizer at 3 its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound.as per the direction of Engineer in Charge	Cum	845.56	5690.65	4811760.18	-	-	0.00	5690.65	0.00	0.00	0.00
	Total				123771459.54					95144722.24		95144722.2
	GST 12%				14852575.14					11417366.67		11417366.7
	Grand Total				138624034.68					106562088.91		106562088.91

CERTIFICATE

1 Certified that the work done is satisfactorily.

2 There is no departmental issues by BBMP

For M/s. NANDI CONSTRUCTION

Contractor

Partners

NEWZEN CONSULTANT Consultants Bangalore

Assistant Engineer

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
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